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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,852	01/30/2004	Roderick A. Barman	P388 0008	3901
720 7	7590 06/26/2006		EXAMINER	
OYEN, WIGGS, GREEN & MUTALA LLP 480 - THE STATION 601 WEST CORDOVA STREET VANCOUVER, BC V6B 1G1			CHEN, TSE W	
			ART UNIT	PAPER NUMBER
			2116	
CANADA			DATE MAILED: 06/26/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/766,852	BARMAN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Tse Chen	2116	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
 Responsive to communication(s) filed on 30 J. This action is FINAL. 2b) This Since this application is in condition for allowatelessed in accordance with the practice under Exercise. 	s action is non-final. nce except for formal matters, pro		
Disposition of Claims	za parto guajro, roco ele ele ele		
4) ⊠ Claim(s) 1-29 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1-29 are subject to restriction and/or	wn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Examine	er.		
10) ☐ The drawing(s) filed on is/are: a) ☐ acc			
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat prity documents have been receiv nu (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:		

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DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-18 and 22-29, drawn to synchronizing devices on a first bus with devices on a second bus comprising determining timing offsets between the buses, classified in class 713, subclass 400.
- II. Claims 19-21, drawn to synchronizing devices on a first bus with devices on a second bus comprising determining timing offsets between each bus and the separate master bus, classified in class 713, subclass 375.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, subcombination I has separate utility such as determining a timing offset between the first and second bus by calculating an average of the first and second time measurements for the first bus and subtracting the time measurement for the second bus from the average, calculating the drift rate based on nth order derivative, or adjustably controlling a delay to alter a length of an operational cycle. See MPEP § 806.05(d).
- Because these inventions are independent or distinct for the reasons given above and the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

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4. This application contains claims directed to the following patentably distinct species for invention I.

5. Group A:

- a. calculating the drift rate comprises calculating a first order time derivative [claim 4].
- b. calculating the drift rate comprises calculating a second order time derivative [claim 5].

6. Group B:

- c. adjust their timing by determining timing information of the first bus by applying the timing offset to the timing information of the second bus [claims 7, 24].
- d. adjust their timing by adjustably controlling a delay to alter a length of an operational cycle [claim 8].

7. Group C:

- e. first and second buses comprise serial buses [claim 10].
- f. first and second buses comprise USB buses [claim 11].
- g. first and second buses comprise buses compliant with electronics standard IEEE1394 [claim 12].
- h. first and second buses comprise different types of buses [claim 13].

8. Group D:

i. carried out on a data processor comprising first and second interfaces coupled to the first and second buses, respectively, and wherein acquiring timing information from

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the first bus and the second bus comprises querying the first and second interfaces for the timing information [claim 16].

j. carried out on a synchronization unit coupled between the first and second buses, and wherein acquiring timing information from the first bus and the second bus comprises receiving timing information from the first and second clocks [claim 17].

9. Group E:

- k. the processing element and the program memory are all located within a data processor configured to process data received from the one or more devices on the first bus and the one or more devices on the second bus [claim 26].
- l. the processing element and the program memory are all located within a first data processor configured to process data received from the one or more devices on the first bus and second interface is located within a second data processor configured to process data received from the one or more devices on the second bus, and wherein the first and second data processors are connected by a network connection [claim 27].
- m. the processing element and the program memory are all located within a synchronization unit coupled between the first and second buses [claim 28].
- 10. The species are independent or distinct because they specify different designs or functions.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species <u>from each</u> group for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1, 14, and 22 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

12. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

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currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tse Chen whose telephone number is (571) 272-3672. The examiner can normally be reached on Monday - Friday 9AM - 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne Browne can be reached on (571) 272-3670. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tse Chen June 16, 2006 LYNNE H. BROWNE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100